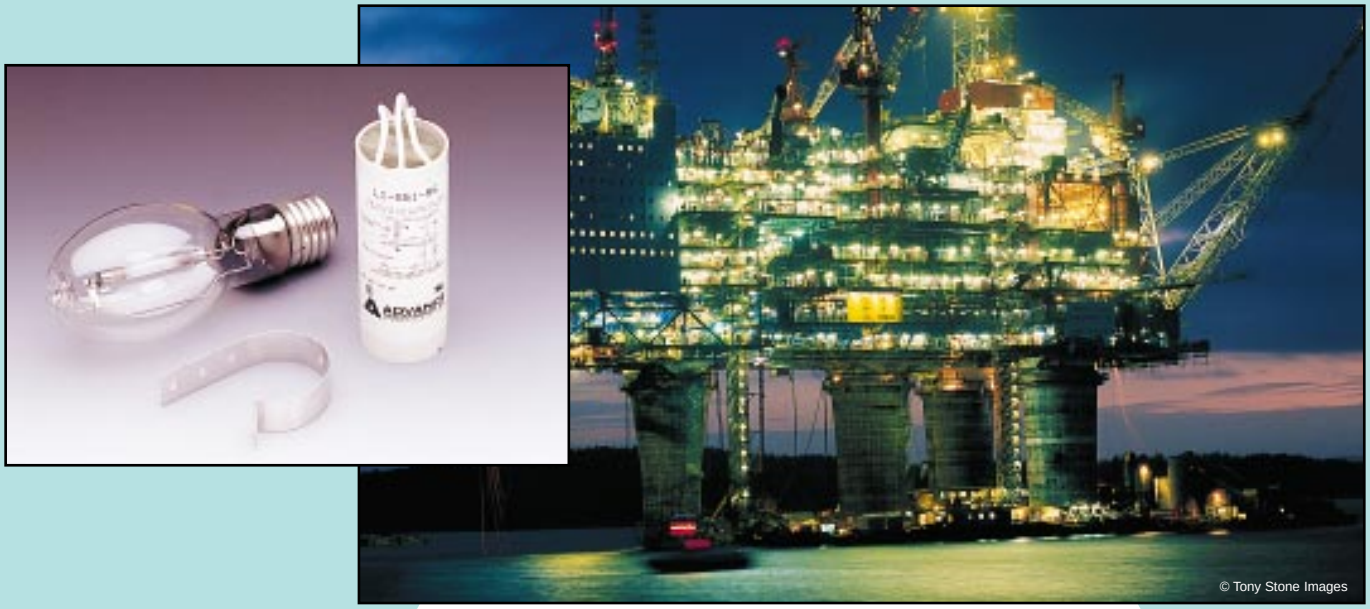
Advance Hot Restrike Ignitor

for Enhanced Performance of Low Wattage High Pressure Sodium Systems

PRODUCT PROFILE



Definition

The Advance Hot Restrike Ignitor enhances the performance of high pressure sodium ballasts for applications in which quick restart is essential. If the lamp extinguishes due to a system voltage dip, the ignitor is enabled and pulses to restrike the lamp. Should the lamp extinguish due to high lamp voltage (characteristic at the end of lamp life), the ignitor prevents lamp cycling by remaining disabled and not restriking the lamp. This breakthrough product brings important features and functions to high pressure sodium to increase the usefulness and widen the application of such lighting systems. Through innovations in technology, all of this is furnished in a single, economical ignitor package.

Description

- For use only with Advance high reactance or reactor ballasts
- For high pressure sodium lamps rated 50, 70 100, or 150 watts (55-volt lamps only)
- Replacement for standard ignitor in ballast circuit
- Pulses to restrike lamp extinguished by system outage
- Will not restrike lamp if it extinguishes due to age, thereby preventing lamp cycling

Features and Benefits

Feature	Benefit
Restrike time ≤ 2 seconds	Proper light level rapidly restored
Eliminates lamp cycling	Provides sure indication that lamps are near end of life and need to be replaced
Voltage dip sensitivity circuit	Ignitor restrikes even when lamp has extinguished due to a system voltage dip
Integral 30 second shut-off timer	Prevents restrike attempt when lamp is burned out
5kv pulse height	Compatible with UL recognized 5kv pulse-rated sockets
90°C case temperature rating	Ensures long life in high ambient temperatures
Thermoplastic outer case	Tough, impact resistant material does not require grounding
Single, economical component	No need for separate shutoff device
Alternative to quartz restrike systems	Simpler, plus full light output

ADVANCE TRANSFORMER CO.
A DIVISION OF PHILIPS ELECTRONICS NORTH AMERICA CORPORATION

Advance Hot Restrike Ignitor

for Enhanced Performance of Low Wattage High Pressure Sodium Systems

Advance Hot Restrike Ignitor Specifications

1. Ignitor shall be compatible with mogul base high pressure sodium lamps rated 50, 70, 100, and 150 watts (55-volt lamps only) using high reactance (HX) or reactor (R) type ballasts.
2. Ignitor shall provide a starting pulse to restrike the lamp within 2 seconds.
3. Ignitor shall provide a starting pulse that is compatible with 5kv pulse-rated mogul-base lamp sockets.
4. A 30 second shutoff timer shall be employed to prevent lamp from pulsing in the event that the lamp is burned out.
5. Ignitor shall include logic to prevent cycling when lamp is near end of life.
6. Voltage dip sensitivity circuitry shall be included so that the ignitor responds to voltage dips that extinguish the lamp.
7. All functions shall be furnished in a single, integral ignitor package.
8. Ignitor shall not compromise lamp light output.
9. The outer case shall be constructed of a tough, impact resistant thermoplastic material that does not require grounding.
10. Ignitor case temperature rating shall be 90°C.
11. Ignitor shall be UL Component Recognized and CSA Certified.

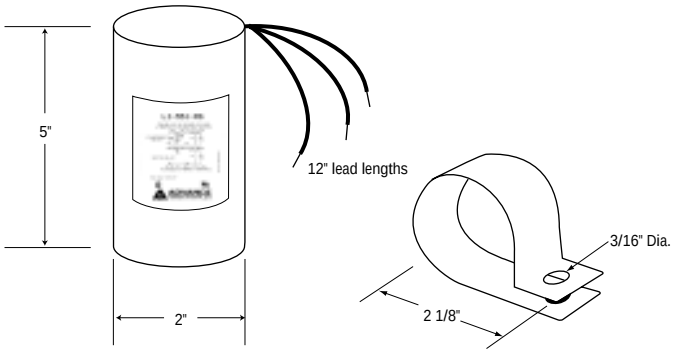
Applications

- Critical industrial applications
- Tunnel lighting
- Hazardous locations
- High risk areas
- Parking garages
- For elimination of end-of-life lamp cycling

Application Requirements

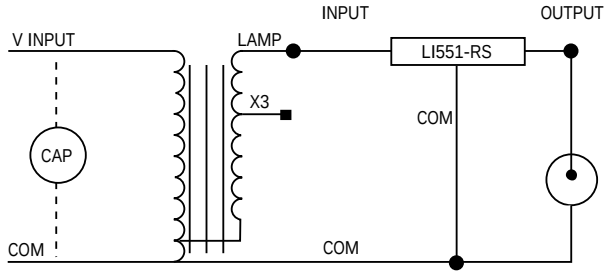
1. For use only with Advance Transformer high reactance (HX) or reactor (R) ballasts
2. For use with high pressure sodium lamps rated 50, 70, 100 or 150 watts (55-volt lamps only)
3. Requires 5kv pulse rated socket (mogul base)
4. 90°C maximum case temperature rating
5. Two foot maximum distance from ignitor to lamp
6. Use hard plastic or ceramic wire nuts on any connection to “OUTPUT” lead
7. Insulate unused “x 3” lead for 300 volts

Dimensions



Mounting Clip Part Number CC-200

Wiring Diagram



High reactance (HX) ballast circuit shown.
Connections are similar for reactor (R) ballast circuit.

Ignitor Selection Guide

Catalog Number	Description
LI551-RS	Ignitor packed 24 per carton (may order in any quantity)
LI551-RS-IC	Replacement ignitor packed in individual carton
CC-200	Mounting clip (included with -IC suffix ignitor)

Note: Hot Restrike Ignitor can be ordered as a separate component and stocked for future use with any applicable Advance ballast. In this case, the original ignitor furnished with the ballast (supplied when ballast catalog number includes a suffix such as -500D or -510D) can be returned to Advance for a credit. Hot Restrike Ignitor can also be supplied from the factory with the ballast, less the standard ignitor. Contact your Advance representative for details.

U.L. RECOGNIZED

Form No. 1707--3/97

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